

SUSTAINABLE MOBILITY PATTERNS AMONG HOSPITAL PHARMACY PROFESSIONALS



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BACKGROUND AND IMPORTANCE



Mobility among healthcare staff has both environmental and organizational implications. Understanding **commuting patterns** and their carbon footprint **allows identification of actions to enhance sustainability.**

AIM AND OBJECTIVES



Cross-sectional descriptive

To analyse commuting habits and estimate the carbon footprint of Pharmacy Service staff in a tertiary hospital, identifying areas to improve sustainability and transport efficiency.

MATERIALS AND METHODS



A voluntary, anonymous, self-administered survey was distributed in September 2024 for 90 days. **22 multiple-choice items** and one open-ended question addressing demographics, professional category, transport modes, commuting frequency, vehicle features, parking times, and improvement proposals.



Analysis was conducted with Microsoft Excel and results were extrapolated to estimate the annual carbon footprint of the entire Pharmacy Service

RESULTS

55 professionals participated (52.3% of response rate)

- Walking or public transport
- Combined modes (+ private cars)
- Private vehicles

Trains	Buses	Metro
36.7%	34.7%	28.6%

32.7% used private cars occasionally
No one shared



70% used Hospital Parking

57.1% more than 10 minutes finding a parking spot

Estimated annual carbon footprint

"C" labeled vehicles	"ECO" cars	Cars older than 5 years
50%	5%	75%

Fuel equally distributed
DIESEL PETROL

39,03 tonnes of CO₂eq.

Suggested improvements included **higher train frequency**, a nearer metro station, **car-sharing programs**, greater public transport subsidies, new cycle lanes, and better hospital access.

CONCLUSION AND RELEVANCE

Over two-thirds of the staff commute sustainably, mainly using public transport. However, nearly one third still depend on private, low-occupancy, and non-eco vehicles, contributing significantly to emissions and congestion. **The 39,03 tonnes of CO₂eq** per year highlight the need for targeted interventions to promote sustainable commuting.

